

PATENT CLAIMS

1. Multiple cavity crate for containers such as yoghurt containers or similar, which is folded-up from one flat blank (1), with
one base (2),
an upper-part (3) raised from the blank plane, in which individual at least partially delimited cavities (6) are designated for the insertion of containers

characterized in that

a stabilizing strut (7) connecting the base (2) with the upper-part (3) is designated between at least two rows of cavities (6).

2. Multiple cavity crate according to claim 1

characterized in that

at least one foldable panel (e.g. 8) essentially running perpendicular or diagonal to the base (2) is designated as a stabilizing strut (7).

3. Multiple cavity crate according to claim 1 or 2

characterized in that

the stabilizing strut (7) is formed by the folding together and bonding of each of at least two foldable panels (8,9).

4. Multiple cavity crate according to claim 3

characterized in that

the areas staggered with respect to one another on the flat blank (1) can be brought together into position by the folding of the foldable panels (8, 9).

5. Multiple cavity crate according to claim 3 or 4

characterized in that

the stabilizing strut (7) comprises three foldable panels (8, 9, 10), whereupon the foldable panels on the side (8,10) can be folded to the intermediate foldable panel (9).

6. Multiple cavity crate according to one of the previous claims

characterized in that

when viewed in one direction, a stabilizing strut (7) is designated between all the rows of cavities (6).

7. Multiple cavity crate according to one of the previous claims

characterized in that

the stabilizing strut (7) is aligned to the blank (1) such that it is parallel to the row of cavities (6), which comprises a greater number of cavities.

8. Multiple cavity crate according to one of the previous claims

characterized in that

the foldable panel (10) of the respective strut (4) is connected to the foldable panel (9) via a fold-line.

9. Multiple cavity crate according to one of the previous claims

characterized in that

support straps (13) are designated in the area of at least one part of the stabilizing strut (7).

10. Multiple cavity crate according to one of the previous claims

characterized in that

two stabilizing struts (7) are designated next to one another.

11. Multiple cavity crate according to claim 10

characterized in that

the neighboring stabilizing struts (7) are separated by a set partition line (14).

12. Multiple cavity crate according to claim 10 or 11

characterized in that

the two neighboring foldable panels (9) at the set partition line (14) are not connected with one another.

13. Multiple cavity crate according to claim 10 or 11

characterized in that

the two neighboring foldable panels (9) at the partition line (14) are connected with one another using removable adhesives.

14. Multiple cavity crate according to one of the previous claims

characterized in that

folds (15) are designated in the corner area, with which, two panels are folded together and connected, preferably bonded together.

15. Multiple cavity crate according to one of the previous claims

characterized in that

the blank (1) features at least a border area (11) over a main portion of its perimeter, which when folded with its upside corresponding to the upside of the base (2) is facing outwards.

16. Multiple cavity crate according to one of the previous claims

characterized in that

the flat blank (1) is printed on its upside.

17. Multiple cavity crate according to one of the previous claims

characterized in that

the border strap (17) at the border area running perpendicularly to the stabilizing strut (7) is folded downwards and a neighboring border strap (18) is folded upwards and both border straps (17,18) are bonded together, whereupon the border strap (17) faces outwards in comparison to the border strap (18).

18. Multiple cavity crate according to one of the previous claims

characterized in that

a partial strut (23) is designated at least between two of the cavities (6) lying next to one another in a row. This partial strut (23) extends over a partial area transverse to the row of the cavities (6).

19. Multiple cavity crate according to claim 18

characterized in that

the partial strut (23) is connected to the base (2) via a support strut (24).

20. Multiple cavity crate according to claim 19

characterized in that

the support strut (24) essentially runs parallel to the stabilizing struts (7).

21. Multiple cavity crate according to one of the previous claims

characterized in that

protrusions (25) are designated in the area of the upper-part (3), particularly for the side-gripping of a container.

22. Multiple cavity crate according to one of the previous claims 18-21

characterized in that

directly opposing partial (23) and support struts (24) are designated in a row of cavities (6), particularly in a row lying on the inside.

23. Multiple cavity crate according to claims 18-22

characterized in that

the partial (23) and support struts (24) are designated on the side of the border areas in the rows of cavities (6) on the side with the borders.

24. Multiple cavity crate according to one of the previous claims

characterized in that

a transverse stabilizing strut (7') is designated transverse to the stabilizing struts (7).

25. Multiple cavity crate according to claim 24

characterized in that

the transverse stabilizing strut (7') can be removed using a set partition line (26).

26. Multiple cavity crate according to claims 24 or 25

characterized in that

the transverse stabilizing strut (7') formed by the folding together and connecting of every two border areas (11) running transversely.

27. Multiple cavity crate according to one of the previous claims 24-26

characterized in that

the crate's areas located on both sides of the transverse stabilizing strut (7') can be pivoted together.

28. Multiple cavity crate according to claims 24- 27

characterized in that

support straps (27) are designated in the area of at least one part of the transverse stabilizing strut (7').

29. Multiple cavity crate according to one of the previous claims

characterized in that

a partial strut (23) is designated in the area of the partially delimited cavities (6). This partial strut (23) extends over a partial area transverse to a row of cavities (6).

30. Multiple cavity crate according to one of the previous claims

characterized in that

the partial strut (23) is connected with the base (2) via a support strut (24).

31. Multiple cavity crate according to one of the previous claims

characterized in that

the partial strut (23) and/or the support strut (24) are each positioned in the middle of a partially delimited cavity (6).

32. Multiple cavity crate according to one of the previous claims

characterized in that

the support strut (24) runs diagonally towards the inside from the partial strut (23) to the base (2).

33. Multiple cavity crate according to one of the previous claims

characterized in that

the breadth of the support strut (24) increases in the direction of the base (2).

34. Multiple cavity crate according to one of the previous claims

characterized in that

the partial (23) and support struts (24) are positioned in every second row of partially delimited cavities (6) directly opposite one another.

35. Multiple cavity crate according to one of the previous claims

characterized in that

the stabilizing strut (7) is interrupted in some sections at least on one side.

36. Multiple cavity crate according to one of the previous claims

characterized in that

the stabilizing strut (7) is interrupted by struts (4) designated between the containers.

37. Multiple cavity crate according to one of the previous claims

characterized in that

struts (4') are designated in the border area, between which the containers can be positioned.

38. Multiple cavity crate according to one of the previous claims

characterized in that

every two neighboring struts (4 respectively 4') form one at least partially delimited cavity (6) for holding a container.

39. Multiple cavity crate according to one of the previous claims

characterized in that

the struts (4) along the stabilizing strut (7) that point to both sides are staggered at least in certain areas with respect to one another.

40. Multiple cavity crate according to one of the previous claims

characterized in that

the struts (4) located along the two neighboring stabilizing struts (7) and the struts (4, 4') positioned along the border area are directly opposite to one another.

41. Multiple cavity crate according to claim 40

characterized in that

the struts (4) located along the two neighboring stabilizing struts (7) and the struts (4, 4') positioned along the border area next to this overlap along their free end areas (29).